

SEQUENCE LISTINGS

<110> National Cancer Center

<120> BETA-CATENIN OLIGONUCLEOTIDE MICROCHIP AND METHOD FOR
DETECTING BETA-CATENIN MUTATIONS EMPLOYING SAME

<130> PCA30321/NCC

<160> 127

<170> KopatentIn 1.71

<210> 1

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 29W

<400> 1

cagcaacagt cttacctgga c 21

<210> 2

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 29M1

<400> 2

gcagcaacag acttacctgg a 21

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

<220>
<223> 29M2

<400> 3
gcagcaacag gcttacctgg a 21

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 29M3

<400> 4
gcagcaacag ccttacctgg a 21

<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 29M4

<400> 5
cagcaacagt attacctgga c 21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 29M5

<400> 6
cagcaacagt gttacctgga c 21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 29M6

<400> 7
cagcaacagt ttacctgga c 21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 29M7

<400> 8
agcaacagtc atacctggac t 21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 29M8

<400> 9
agcaacagtc gtacctggac t 21

<210> 10

<211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 29M9

<400> 10
 agcaacagtc ctacctggac t 21

<210> 11
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 29D

<400> 11
 ggcagcaaca gtacctggac t 21

<210> 12
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 31W

<400> 12
 cagtcttacc tggactctgg a 21

<210> 13
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>

<223> 31M1

<400> 13
acagtcttac atggactctg g 21

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 31M2

<400> 14
acagtcttac ttggactctg g 21

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 31M3

<400> 15
acagtcttac gtggactctg g 21

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 31M4

<400> 16
cagtcttacc aggactctgg a 21

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 31M5

<400> 17
cagtcttacc gggactctgg a 21

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 31M6

<400> 18
cagtcttacc cggactctgg a 21

<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 31M7

<400> 19
agtcttacct agactctgga a 21

<210> 20
<211> 21
<212> DNA

<213> Artificial Sequence

<220>

<223> 31M8

<400> 20

agtctttacct cgactctgga a 21

<210> 21

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 31M9

<400> 21

agtctttacct tgactctgga a 21

<210> 22

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 31D

<400> 22

aacagtctta cgactctgga a 21

<210> 23

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 32W

<400> 23
tctttacctgg actctggaa c 21

<210> 24
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 32M1

<400> 24
gtctttacctg cactctggaa t 21

<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 32M2

<400> 25
gtctttacctg tactctggaa t 21

<210> 26
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 32M3

<400> 26
gtctttacctg aactctggaa t 21

<210> 27
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 32M4

<400> 27
tcttacctgg cctctggaat c 21

<210> 28
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 32M5

<400> 28
tcttacctgg tctctggaat c 21

<210> 29
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 32M6

<400> 29
tcttacctgg gctctggaat c 21

<210> 30
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> 32M7

<400> 30

cttacctgga gtctggaatc c 21

<210> 31

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 32M8

<400> 31

cttacctgga ttctggaatc c 21

<210> 32

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 32M9

<400> 32

cttacctgga atctggaatc c 21

<210> 33

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 32D

<400> 33

agtcttacct gtctggaatc c 21

<210> 34
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33W

<400> 34
tacctggact ctggaatcca t 21

<210> 35
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33M1

<400> 35
ttacctggac actggaatcc a 21

<210> 36
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33M2

<400> 36
ttacctggac gctggaatcc a 21

<210> 37
<211> 21

<212> DNA
<213> Artificial Sequence

<220>
<223> 33M3

<400> 37
ttacctggac cctggaatcc a 21

<210> 38
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33M4

<400> 38
tacctggact gtggaatcca t 21

<210> 39
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33M5

<400> 39
tacctggact atggaatcca t 21

<210> 40
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33M6

<400> 40
tacctggact ttggaatcca t 21

<210> 41
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33M7

<400> 41
acctggactc aggaatccat t 21

<210> 42
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33M8

<400> 42
acctggactc ggaatccat t 21

<210> 43
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33M9

<400> 43
acctggactc cggaatccat t 21

<210> 44
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 33D

<400> 44
ttacctggac ggaatccatt c 21

<210> 45
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34W

<400> 45
ctggactctg gaatccattc t 21

<210> 46
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M1

<400> 46
cctggactct tgaatccatt c 21

<210> 47
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M2

<400> 47
cctggactct agaatccatt c 21

<210> 48
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M3

<400> 48
cctggactct cgaatccatt c 21

<210> 49
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M4

<400> 49
ctggactctg taatccattc t 21

<210> 50
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M5

<400> 50
ctggactctg caatccattc t 21

<210> 51
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M6

<400> 51
ctggactctg aaatccattc t 21

<210> 52
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M7

<400> 52
tggactctgg tatccattct g 21

<210> 53
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M8

<400> 53
tggactctgg gatccattct g 21

<210> 54

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34M9

<400> 54
tggactctgg catccattct g 21

<210> 55
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 34D

<400> 55
cctggactct atccattctg g 21

<210> 56
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 35W

<400> 56
gactctggaa tccattctgg t 21

<210> 57
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> 35M1

<400> 57
ggactctgga gtccattctg g 21

<210> 58
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 35M2

<400> 58
ggactctgga ctccattctg g 21

<210> 59
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 35M3

<400> 59
ggactctgga ttccattctg g 21

<210> 60
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 35M4

<400> 60
gactctggaa cccattctgg t 21

<210> 61
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 35M5

<400> 61
gactctggaa gccattctgg t 21

<210> 62
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 35M6

<400> 62
gactctggaa accattctgg t 21

<210> 63
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 35M7

<400> 63
actctggaat gcattctggt g 21

<210> 64
<211> 21
<212> DNA

<213> Artificial Sequence

<220>

<223> 35M8

<400> 64

actctggaat acattctggt g 21

<210> 65

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 35M9

<400> 65

actctggaat tcattctggt g 21

<210> 66

<211> 21

<212> DNA

<213> Artificial Sequence .

<220>

<223> 35D

<400> 66

ggactctgga cattctggtg c 21

<210> 67

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 37W

21

<400> 67
ggaatccatt ctggtgccac t 21

<210> 68
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M1

<400> 68
tggaatccat actggtgcc a c 21

<210> 69
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M2

<400> 69
tggaatccat cctggtgcc a c 21

<210> 70
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M3

<400> 70
tggaatccat gctggtgcc a c 21

<210> 71
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M4

<400> 71
ggaatccatt atggtgccac t 21

<210> 72
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M5

<400> 72
ggaatccatt gtggtgccac t 21

<210> 73
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M6

<400> 73
ggaatccatt ttggtgccac t 21

<210> 74
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M7

<400> 74
gaatccattc aggtgccact a 21

<210> 75
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M8

<400> 75
gaatccattc gggtgccact a 21

<210> 76
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37M9

<400> 76
gaatccattc cggtgccact a 21

<210> 77
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 37D

<400> 77

tggaatccat ggtgccacta c 21

<210> 78
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38W

<400> 78
atccattctg gtgccactac c 21

<210> 79
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38M1

<400> 79
aatccattct agtgccacta c 21

<210> 80
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38M2

<400> 80
aatccattct cgtgccacta c 21

<210> 81
<211> 21

<212> DNA
<213> Artificial Sequence

<220>
<223> 38M3

<400> 81
aatccattct tgtgccacta c 21

<210> 82
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38M4

<400> 82
atccattctg atgccactac c 21

<210> 83
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38M5

<400> 83
atccattctg ctgccactac c 21

<210> 84
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38M6

<400> 84
atccattctg ttgccactac c 21

<210> 85
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38M7

<400> 85
tccattctgg agccactacc a 21

<210> 86
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38M8

<400> 86
tccattctgg ggccactacc a 21

<210> 87
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38M9

<400> 87
tccattctgg cgccactacc a 21

<210> 88
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 38D

<400> 88
aatccattct gccactacca c 21

<210> 89
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 41W

<400> 89
ggtgccacta ccacagctcc t 21

<210> 90
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 41M1

<400> 90
tggtgccact tccacagctc c 21

<210> 91
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> 41M2

<400> 91

tggtgccact gccacagctc c 21

<210> 92

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 41M3

<400> 92

tggtgccact cccacagctc c 21

<210> 93

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 41M4

<400> 93

ggtgccacta gcacagctcc t 21

<210> 94

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 41M5

<400> 94
ggtgccacta tcacagctcc t 21

<210> 95
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 41M6

<400> 95
ggtgccacta acacagctcc t 21

<210> 96
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 41M7

<400> 96
gtgccactac aacagctcct t 21

<210> 97
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 41M8

<400> 97
gtgccactac tacagctcct t 21

<210> 98

<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 41M9

<400> 98
gtgccactac gacagtcct t 21

<210> 99
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 41D

<400> 99
tggtgccact acagtcctt c 21

<210> 100
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 45W

<400> 100
acagtcctt ctctgagtgg t 21

<210> 101
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> 45M1

<400> 101
cacagctcct actctgagtg g 21

<210> 102
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 45M2

<400> 102
cacagctcct gctctgagtg g 21

<210> 103
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 45M3

<400> 103
cacagctcct cctctgagtg g 21

<210> 104
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 45M4

<400> 104
acagctcctt gtctgagtgg t 21

<210> 105
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 45M5

<400> 105
acagctcctt atctgagtgg t 21

<210> 106
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 45M6

<400> 106
acagctcctt ttctgagtgg t 21

<210> 107
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 45M7

<400> 107
cagctccttc actgagtgg t a 21

<210> 108
<211> 21
<212> DNA

<213> Artificial Sequence

<220>

<223> 45M8

<400> 108

cagctccttc gctgagtgggt a 21

<210> 109

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 45M9

<400> 109

cagctccttc cctgagtgggt a 21

<210> 110

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 45D

<400> 110

ccacagctcc tctgagtgggt a 21

<210> 111

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 48W

<400> 111
tctctgagtg gtaaaggcaa t 21

<210> 112
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 48M1

<400> 112
ttctctgagt agtaaaggca a 21

<210> 113
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 48M2

<400> 113
ttctctgagt tgtaaaggca a 21

<210> 114
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 48M3

<400> 114
ttctctgagt cgtaaaggca a 21

<210> 115
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 48M4

<400> 115
tctctgagtg ataaaggcaa t 21

<210> 116
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 48M5

<400> 116
tctctgagtg ctaaaggcaa t 21

<210> 117
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 48M6

<400> 117
tctctgagtg ttaaaggcaa t 21

<210> 118
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> 48M7

<400> 118

ctctgagtgg aaaaggcaat c 21

<210> 119

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 48M8

<400> 119

ctctgagtgg caaaggcaat c 21

<210> 120

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 48M9

<400> 120

ctctgagtgg gaaaggcaat c 21

<210> 121

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> 48D

<400> 121

ttctctgagt aaaggcaatc c 21

<210> 122
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Exon-3F

<400> 122
 gatttgatgg agttggacat gg 22

<210> 123
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Exon-3R

<400> 123
 tgttcttgag tgaaggactg ag 22

<210> 124
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Long-3F

<400> 124
 aaaatccagc gtggacaatg g 21

<210> 125
 <211> 21

<212> DNA
<213> Artificial Sequence

<220>
<223> Long-3R

<400> 125
tgtggcaagt tctgcatcat c 21

<210> 126
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> BAT26-F

<400> 126
tgactacttt tgacttcagc c 21

<210> 127
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> BAT26-R

<400> 127
aaccattcaa catttttaac cc 22